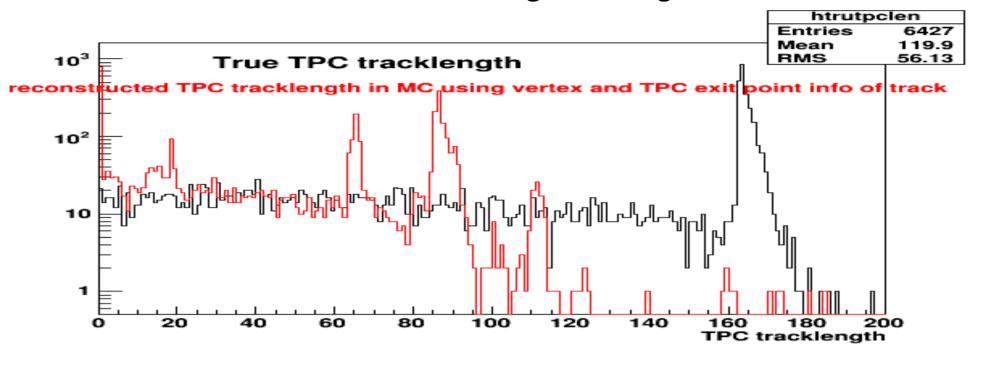
Updates on TPC tracklength in data DST

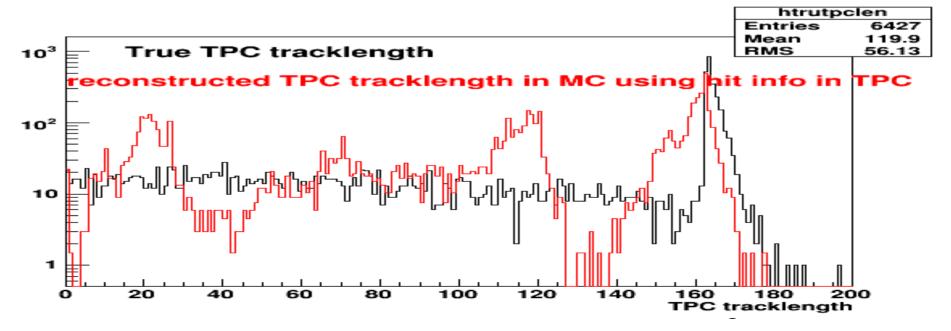
Sourav Tarafdar for MIPP Collaboration 22nd Feb 2011

Introduction:

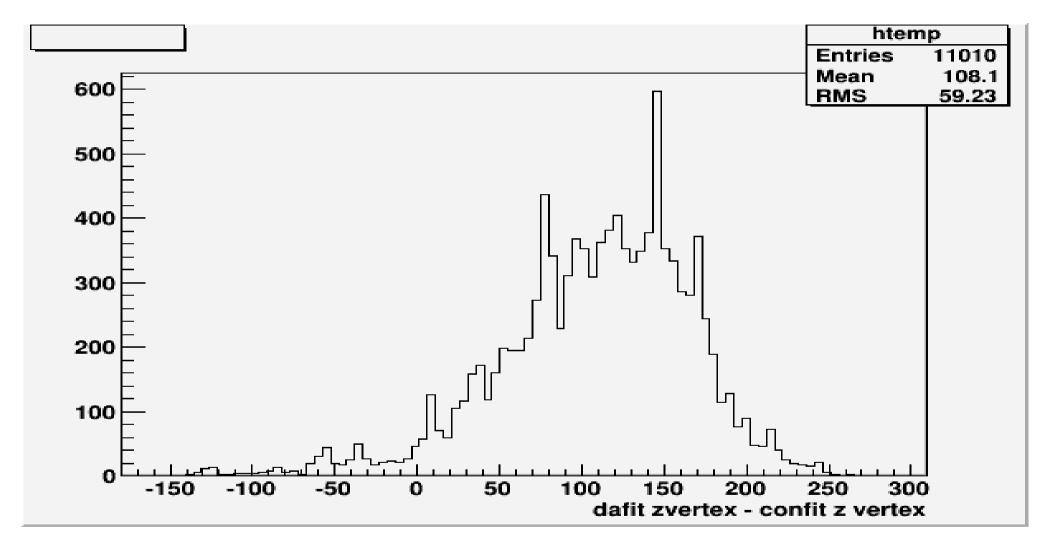
- 1. Introduction of TPC tracklength in data DST.
- To make sure that calculation is correct the calculated TPC tracklength in MC reco should have almost the same nature as the true TPC tracklength.
- Calculation of TPC tracklength was done using two methods
- a) Use of z coordinate information for first hit and last hit inside TPC.
- b) Use of track vertex and track exit point from TPC.
- 4. The comparison between true TPC tracklength and the reco MC TPC tracklength calculated using the above two methods will be shown today.

TPC tracklength using dafit



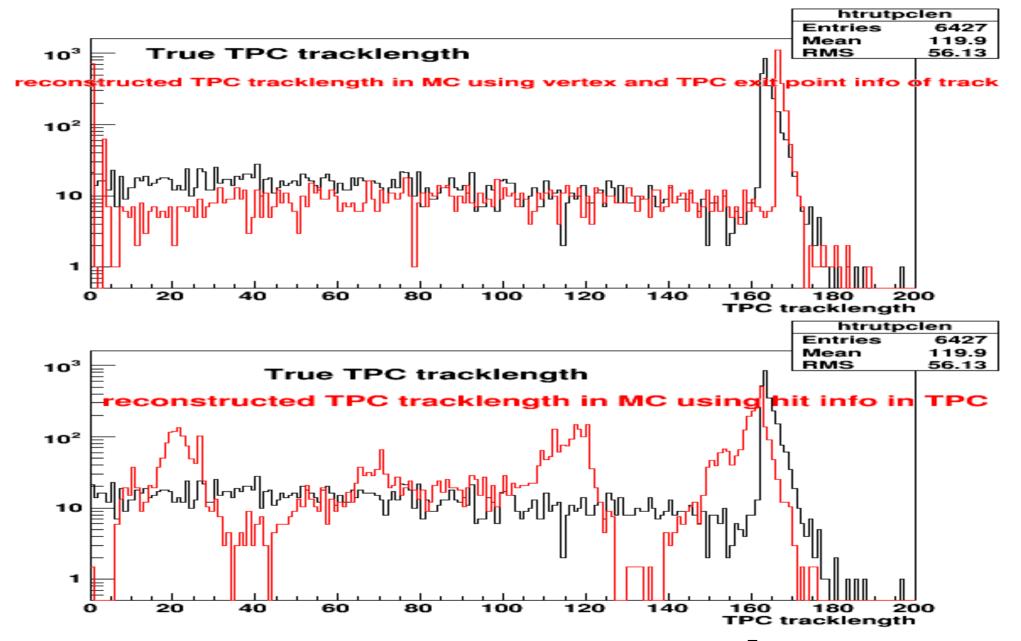


Dafit z vertex – Confit z vertex



Most of the track vertex in z for dafit lies inside the TPC

TPC tracklength using confit



Conclusions:

- 1. For dafit vertex none of the two procedure for calculating the reco TPC tracklength in MC matches with the true TPC tracklength.
- 2. For confit vertex the reco TPC tracklength in MC, calculated using the track z vertex and the z exit of track from TPC, has same nature as the True TPC tracklength.